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Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/W.No.12/RS/CSR-3/797d/CEMENT/2014-15 Date: 26.03.2015

TEST REPORT ON CEMENT

*** CUSTOMER**	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, Dasarahalli Zone, BBMP, Bangalore.
***AGENCY**	:	**Mr. R. Shivaram,** No.4/13, Avalamma Choultry Layout, Magadi Road, Bangalore – 560023.
***NAME OF THE WORK**	:	Providing Metalling to roads & drains at Surya Enclave & Ananda county at Abbigere, in Ward No.12, in Shettyhalli Sub Division, BBMP, Bangalore.
***REFERENCE**	:	BBMP/AEE/SSD/DZ/PR/2014-15 Dated: 24.03.2015
SAMPLE ID	:	Cement
SAMPLE RECEIVED ON	:	24.03.2015
PERIOD OF TESTING	:	24.03.2015 to 26.03.2015

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988(RA-2009)	31.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988(RA-2009)	135 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988(RA-2009)	475 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988(RA-2009)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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ಬಿ.ಇ.ಎಲ್ ರಸ್ತೆ, ರವೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು

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VISHWANATH. I.A.
Chief Executive Officer

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Job No.: CTCE/BBMP/W.No.12/RS/CSR-3/797d/SAND-Gradation/2014-15 : 26.03.2015

TEST REPORT ON DETERMINATION GRADATION OF FINE AGGREGATES

*** Customer** : **Asst. Executive Engineer,** Shettyhalli Sub Division, Dasarahalli Zone, BBMP, Bangalore.

*** Agency** : **Mr. R. Shivaram,** No.4/13, Avalamma Choultry Layout, Magadi Road, Bangalore – 560023.

*** Name of Work** : Providing Metalling to roads & drains at Surya Enclave & Ananda county at Abbigere, in Ward No.12, in Shettyhalli Sub Division, BBMP, Bangalore.

Reference : BBMP/AEE/SSD/DZ/PR/2014-15 Dated: 24.03.2015

Technical Reference : IS : 2386 Part 1 - 1963 RA-2007

Sample ID : Fine Aggregates

Sample Received on : 24.03.2015

Date of Testing : 26.03.2015

Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	93.00	90-100	90-100	90-100	95-100
2.36	73.50	60-95	75-100	85-100	95-100
1.18	52.50	30-70	55-90	75-100	90-100
600 Micron	32.70	15-34	35-59	60-79	80-100
300 Micron	17.10	5-20	8-30	12-40	15-50
150 Micron	6.10	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-I specific limits.

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ಎಸ್.ಬಿ. ಲೇಔಟ್, ಅಬ್ಬಿಗೆರೆ, ಬೆಂಗಳೂರು

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Job No.: CTCE/BBMP/W.No.12/RS/CSR-3/797d/AGG/GR/2014-15 : 26.03.2015

TEST REPORT ON DETERMINATION GRADATION OF COARSE AGGREGATES

*** Customer** : **Asst. Executive Engineer,** Shettyhalli Sub Division, Dasarahalli Zone, BBMP, Bangalore.

*** Agency** : **Mr. R. Shivaram,**
No.4/13, Avalamma Choultry Layout, Magadi Road, Bangalore – 560023.

*** Name of Work** : Providing Metalling to roads & drains at Surya Enclave & Ananda county at Abbigere, in Ward No.12, in Shettyhalli Sub Division, BBMP, Bangalore.

Reference : BBMP/AEE/SSD/DZ/PR/2014-15 Dated: 24.03.2015

Technical Reference : IS : 2386 Part 1 -1963 RA-2007

Sample ID : Coarse Aggregates (40mm)

Sample Received on : 24.03.2015

Date of Testing : 26.03.2015

Total Wt. of Aggregates in gms= **10000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	98.00	95-100	85-100
20	44.00	30-70	0-20
10	15.50	10-35	0-5
4.75	2.60	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits.

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Job No.: CTCE/BBMP/W.No.12/RS/CSR-3/797d/AGG/GR/2014-15 : 26.03.2015

TEST REPORT ON DETERMINATION GRADATION OF COARSE AGGREGATES

*** Customer** : **Asst. Executive Engineer,** Shettyhalli Sub Division, Dasarahalli Zone, BBMP, Bangalore.

*** Agency** : **Mr. R. Shivaram,** No.4/13, Avalamma Choultry Layout, Magadi Road, Bangalore – 560023.

*** Name of Work** : Providing Metalling to roads & drains at Surya Enclave & Ananda county at Abbigere, in Ward No.12, in Shettyhalli Sub Division, BBMP, Bangalore.

*** Reference** : BBMP/AEE/SSD/DZ/PR/2014-15 Dated: 24.03.2015

Technical Reference : IS : 2386 Part 1 -1963 RA-2007

Sample ID : Coarse Aggregates (20mm)

Sample Received on : 24.03.2015

Date. of Testing : 26.03.2015

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS :383-1970 (RA- 2007)	
		Graded	Single Sized
40	100	100	100
20	96.30	95-100	85-100
10	31.30	25-55	0-20
4.75	4.30	0-10	0-5

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits

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ಯು.ಎಂ ರಸ್ತೆ, ಸದಾಶಿವನಗರ, ಬೆಂಗಳೂರು

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T-2377

Job No.: CTCE/BBMP/W.No.12/RS/CSR-3/797d/CUBE/2014-15 28.04.2015

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*** Customer** : **Asst. Executive Engineer,** Shettyhalli Sub Division, Dasarahalli Zone, BBMP, Bangalore.

*** Agency** : **Mr. R. Shivaram,** No.4/13, Avalamma Choultry Layout, Magadi Road, Bangalore – 560023.

*** Name of the work** : Providing Metalling to roads & drains at Surya Enclave & Ananda county at Abbigere, in Ward No.12, in Shettyhalli Sub Division, BBMP, Bangalore.

*** Reference** : BBMP/AEE/SSD/DZ/PR/2014-15 Dated: 24.03.2015

*** Sample ID** : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

*** Grade of Concrete** : M_{15}

Compressive Strength as on : 28th day

Sample Received on : 31.03.2015

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	31.03.2015	28.04.2015	8.125	355.3	15.79
2	31.03.2015	28.04.2015	8.190	365.4	16.24
3	31.03.2015	28.04.2015	8.210	375.6	16.69

* Information is furnished by the Customer/Representative

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Job No.: CTCE/BBMP/W.No.12/RS/WBM-II/2014-15

Date: 06.04.2015

REPORT

Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, Dasarahalli Zone, BBMP, Bangalore.
Agency	:	**Mr. R. Shivaram,** No.4/13, Avalamma Choultry Layout, Magadi Road, Bangalore – 560023.
Name of the Work	:	Providing Metalling to roads & drains at Surya Enclave & Ananda county at Abbigere, in Ward No.12, Shettyhalli Sub Division, BBMP, Bangalore.
Reference	:	BBMP/AEE/SSD/DZ/PR/2014-15 Dated: 24.03.2015
Type of Mix	:	Water Bound Macadam (Grade-II Metal)
Date of Sampling	:	04.04.2015
Date of Testing	:	06.04.2015

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1) SEIVE ANALYSIS :

IS Sieve designation Size, mm	Percentage Passing for Graded Aggregate of Nominal size	Percentage by Weight Passing as per MORTH table 400-7
90mm	100.00	100.00
63mm	95.85	90-100
53mm	32.10	25-75
45mm	9.55	0-15
22.4mm	1.20	0-5

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Job No.: CTCE/BBMP/W.No.12/RS/WBM-III/2014-15

Date: 10.04.2015

REPORT

Customer	:	**Asst. Executive Engineer**, Shettyhalli Sub Division, Dasarahalli Zone, BBMP, Bangalore.
Agency	:	**Mr. R. Shivaram,** No.4/13, Avalamma Choultry Layout, Magadi Road, Bangalore – 560023.
Name of the Work	:	Providing Metalling to roads & drains at Surya Enclave & Ananda county at Abbigere, in Ward No.12, Shettyhalli Sub Division, BBMP, Bangalore.
Reference	:	BBMP/AEE/SSD/DZ/PR/2014-15 Dated: 24.03.2015
Type of Mix	:	Water Bound Macadam (Grade-III Metal)
Date of Sampling	:	09.04.2015
Date of Testing	:	10.04.2015

CIVIL ENGINEERING TESTING LABORATORY www.civiltechconsultants.com

1) SEIVE ANALYSIS:

IS Sieve designation Size,mm	Percentage Passing for Graded Aggregate of Nominal size	Percentage by Weight Passing as per MORTH table 400-7
63mm	100.00	100.00
53mm	97.50	95-100
45mm	68.20	65-90
22.4mm	6.55	0-10
11.2mm	2.60	0-5

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AE - 12

10/4

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